

AMENDMENTS TO THE CLAIMS

This listing of the claims replaces all prior versions and listings of claims in the application.

Listing of the claims

1. (Currently amended) A method for reducing the methane content in an off-gas stream of a gas-fired plant, ~~comprising contacting wherein~~ at least a portion of said off-gas stream ~~from a gas-fired plant is contacted~~ with a plasma and a catalyst.
2. (Currently amended) A method according to claim 1, wherein ~~further the~~ NO_x content of said off-gas stream is reduced.
3. (Previously presented) A method according to claim 1, wherein said plasma is generated by the use of an electrical or an electromagnetic field.
4. (Original) A method according to claim 3, wherein the plasma is generated by use of an electrical field of 1-100 kV/cm.
5. (Previously presented) A method according to claim 1, wherein the plasma is generated by means of an alternating voltage of a frequency of 100 Hz to 100 kHz.
6. (Previously presented) A method according to claim 1, wherein the plasma is maintained with the aid of a partial discharge.
7. (Original) A method according to claim 6, wherein the partial discharge is generated by use of a dielectric.
8. (Previously presented) A method according to claim 1, wherein the whole off-gas stream or virtually the whole off-gas stream is contacted with said plasma and said catalyst.

9. (Previously presented) A method according to claim 1, which is carried out at a temperature of 300 – 500 °C.

10. (Previously presented) A method according to claim 1, wherein said catalyst comprises Al_2O_3 , zeolite, ZrO_2 , Ga_2O_3 , TiO_2 , WO_3 , perovskite or combinations thereof.

11. (Original) A method according to claim 8, wherein said catalyst comprises $\gamma\text{-Al}_2\text{O}_3$.

12. (Previously presented) A method according to claim 1, wherein said catalyst is a three-way catalyst, which comprises Rh, Pt or Pd on Al_2O_3 support, if desired with additions of Ce, La, Zr or Ce.

13. (Previously presented) A method according to claim 1, wherein said catalyst is an oxidation catalyst, which comprises Ag or Pt on a metal oxide support.